



COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.O. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: PS-1702057
Date Issued: 07/11/2017
Start Date: 07/11/2017
Exp. Date: 09/15/2017
Project No: PWP730077
Quad: NS

UE/CR/PM NO:8349

ENCROACHMENT PERMIT

To: CALIFORNIA WATER SERVICE
1602 E LAFAYETTE ST
STOCKTON, CA 95205

Encroachment Type:

| | | | |
|-----------|--|--|--|
| Bell Hole | | | |
|-----------|--|--|--|

Location:

N/S OF ANITA ST. 90' W/O WIZARD ST.

In compliance with your request of 07/11/2017, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:

| |
|---------------------------|
| Traffic Control Per MUTCD |
|---------------------------|

| | | | |
|--------|-------------|---------------|--|
| FORMS: | SS/WW, R-29 | TRENCH POLICY | |
|--------|-------------|---------------|--|

Est. Permit Fee: \$436.00

| | |
|-----------|-------------------|
| WHITE | -Permittee |
| GOLDENROD | -PWD Central File |
| YELLOW | -Field Inspection |
| PINK | -Permit Section |

KRIS BALAJI, Director
Department of Public Works

By: 

Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies-governing the encroachment herein permitted. See the following references:

STREETS AND HIGHWAYS CODE

1. Division 1, Chapter 3
2. Division 2, Chapter 2, Section 942
3. Division 2, Chapter 4, Section 1126
4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date July 7, 2017

To: San Joaquin County
Department of Public Works

CALIFORNIA WATER SERVICE
(Applicant Name)

1602 E. LAFAYETTE ST
(Mailing Address)

STOCKTON CA 95205
(City, State, Zip Code)

(209) 464-8311
(Area Code - Telephone Number)

#8349

OFFICE USE ONLY

JOB # Ref-730077 REF # _____
APN _____ CR # _____
EXP. DATE 9-15-2017
VALID 7-11-2017 TO 9-15-2017 DRIVEWAYS: _____
STREET Anita St * _____
AREA Stockton QUAD SS * _____
TYPE Pothole * _____
FORMS SS/WO, R29 trenching
NOTES _____

Sketch (Detailed plans may be submitted)

See Attached

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the North side of Anita approximately 90 feet/mile West of Wizard, by performing the following work (description of work):

1837 E Anita St Acct 103000
Install 1" Dom Service SHK 0600
1 cut: 3' x 3' Act ID 3450-1-T

Work will commence on or about July 7, 2017 for approximately 60 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Stacie Allen - Operations Clerk
Signature of Applicant - Title

7/7/17
Date

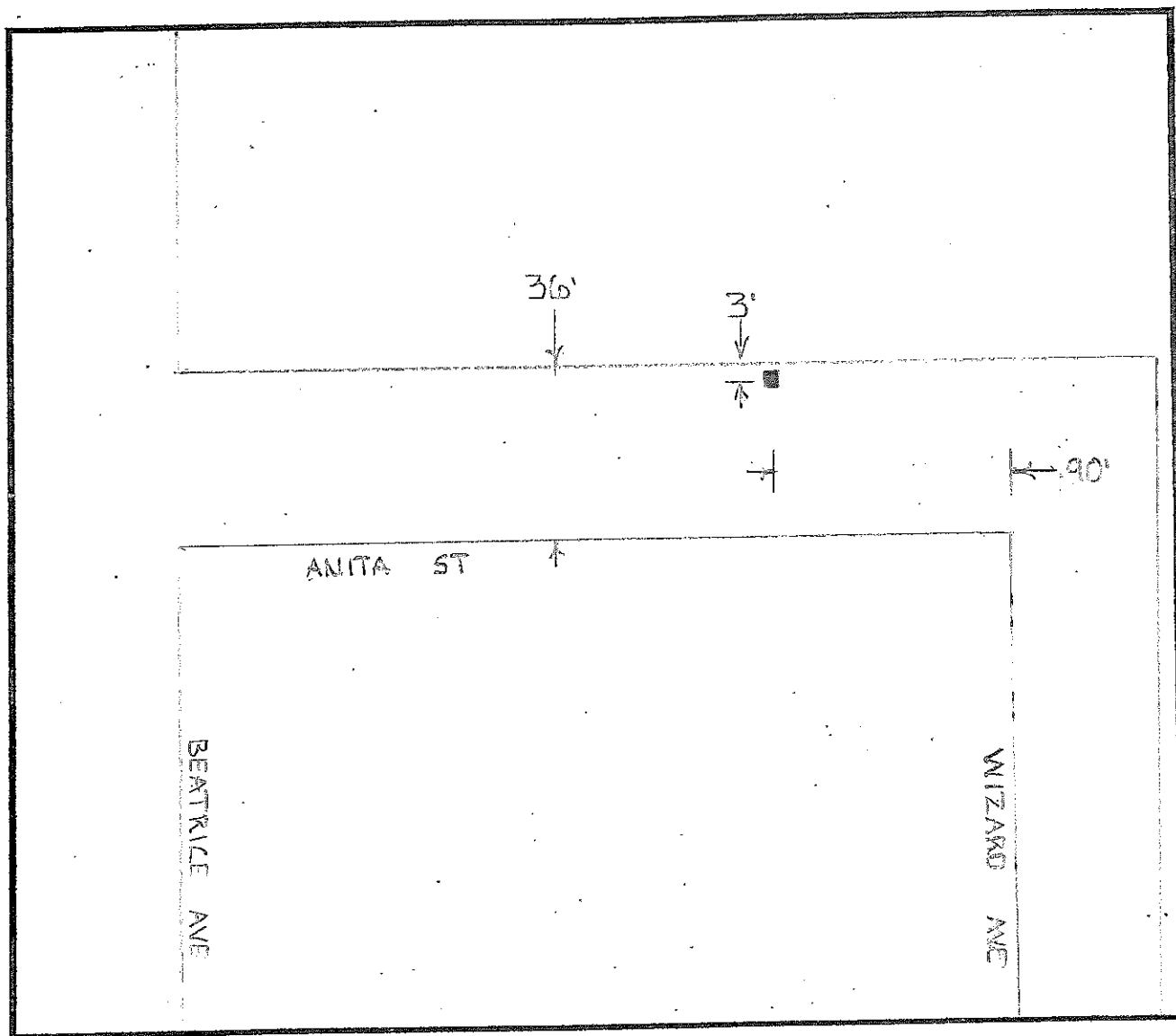
This road is subject to pavement cuts and shall receive pavement restoration as described in the San Joaquin County Department of Public Works Trench Cut Policy. Shoulder areas shall be brought up to the finish grade as directed by the County.

REQUIRED MEASUREMENTS:

1. RIGHT OF WAY (EDGE OF PAVEMENT, FACE OF CURB, ETC.)
2. CENTER LINE (EDGE OF PAVEMENT, FACE OF CURB, ETC.)
3. OUR FACILITIES TO NEAREST EDGE
4. STREET CUT TO CLOSEST X-STREET

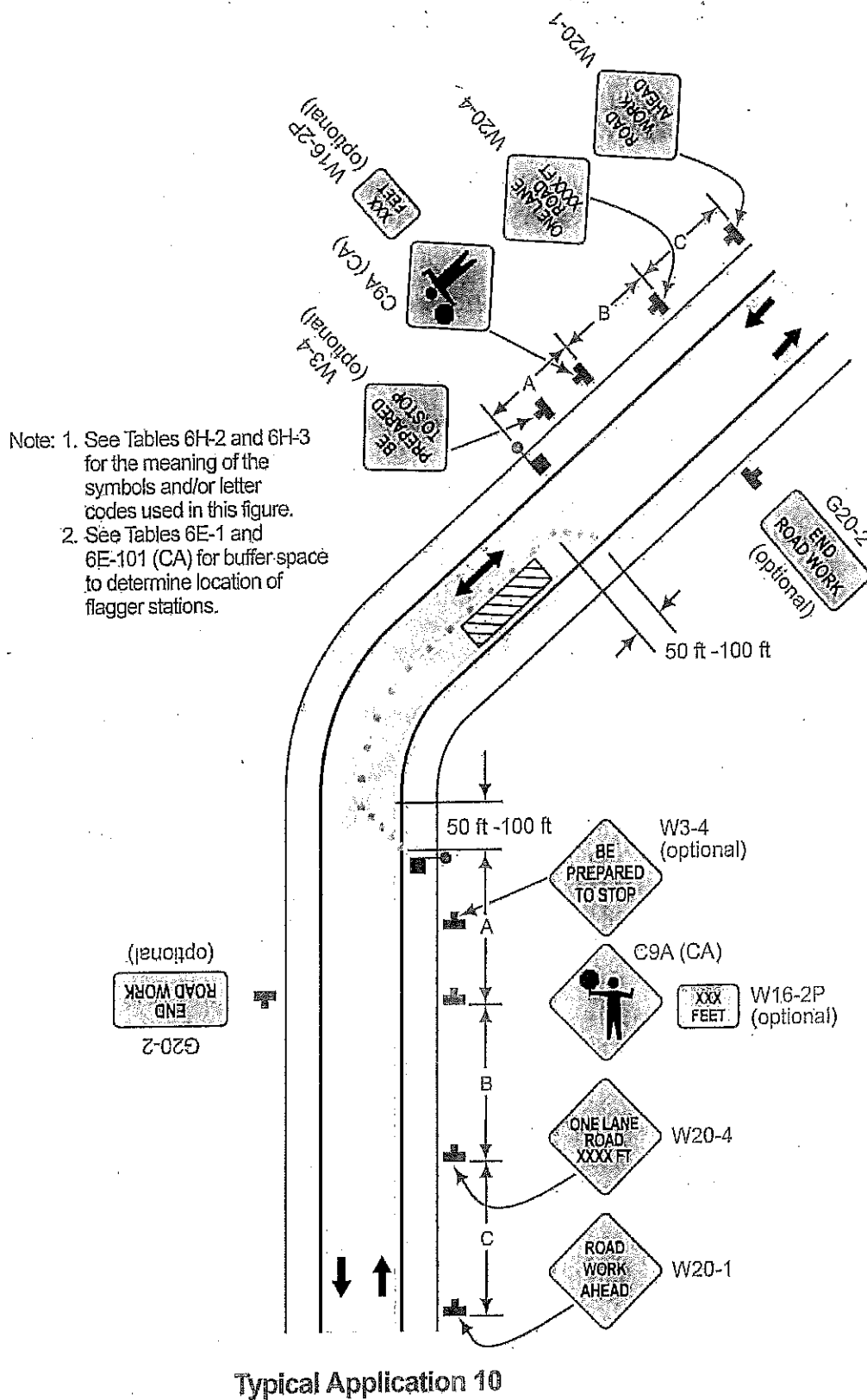
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W



The excavation, construction, and/or otherwise encroachment will take place on Highway Right-of-Way on the NORTH side of ANITA ST approximately 90 feet/mile WEST of WIZARD AVE

Figure 6H-10 (CA). Lane Closure on Two-Lane Road Using Flaggers (TA-10)



Notes for Figure 6H-10 6H-10(CA) and 6H-10A(CA) —Typical Application 10
Lane Closure on a Two-Lane Road Using Flaggers

Option:

1. For low-volume (Refer to Part 5, Section 5A.01) situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. A BE PREPARED TO STOP sign may be added to the sign series.

Guidance:

4. *The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.*

Standard:

5. **At night, flagger stations shall be illuminated, except in emergencies.**

Guidance:

6. *When used, the BE PREPARED TO STOP sign should be located ~~between~~ after the Flagger sign and the ONE LANE ROAD sign.*
7. *When a grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the grade crossing, the TTC zone should be extended so that the transition area precedes the grade crossing.*
8. *When a grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.*
9. *When a grade crossing exists within the activity area, drivers operating on the left-hand side of the normal center line should be provided with comparable warning devices as for drivers operating on the right-hand side of the normal center line.*
10. *Early coordination with the railroad company or light rail transit agency should occur before work starts.*

Option:

11. A flagger or a uniformed law enforcement officer may be used at the grade crossing to minimize the probability that vehicles are stopped within 15 feet of the grade crossing, measured from both sides of the outside rails.

Support:

12. For State highways, see Caltrans' Standard Plan T13. See Section 1A.11 for information regarding this publication.
13. If portable transverse rumble strips are used for flagging operations, refer to Section 6F.87.

Table 6H-1(CA). Index to Typical Applications

| Typical Application Description | Typical Application Number |
|---|----------------------------|
| Work affecting Pedestrian and Bicycle Facilities (see Section 6G.05) | |
| Shoulder Closure on Urban (Low Speed) Locations to Accommodate Bicyclists | TA-101(CA) |
| Lane Closure on Freeway, Expressway, Rural and Urban (High Speed) Locations to Accommodate Bicyclists | TA-102(CA) |
| Detour for Bike Lane on Roads with Closure of One Travel Direction | TA-103(CA) |
| Right Lane and Bike Lane Closure on Far Side of Intersection | TA-104(CA) |
| Work Within the Traveled Way of a Two-Lane Highway (see Section 6G.10) | |
| Lane Shift on Road with Low Traffic Volumes | TA-105(CA) |

Table 6H-2. Meaning of Symbols on Typical Application Diagrams























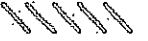
| | | | |
|---|--|--|--------------------------------------|
|  | Arrow board |  | Shadow vehicle |
|  | Arrow board support or trailer (shown facing down) |  | Sign (shown facing left) |
|  | Changeable message sign or support trailer |  | Surveyor |
|  | Channelizing device |  | Temporary barrier |
|  | Crash cushion |  | Temporary barrier with warning light |
|  | Direction of temporary traffic detour |  | Traffic or pedestrian signal |
|  | Direction of traffic |  | Truck-mounted attenuator |
|  | Flagger |  | Type 3 barricade |
|  | High-level warning device (Flag tree) |  | Warning light |
|  | Longitudinal channelizing device |  | Work space |
|  | Luminaire |  | Work vehicle |
|  | Pavement markings that should be removed for a long-term project | | |

Table 6H-3. Recommended Advance Warning Sign Minimum Spacing

| Road Type | Distance Between Signs** | | |
|---|--------------------------|------------|------------|
| | A | B | C |
| Urban (low speed) - 25 mph or less*** | 100 feet | 100 feet | 100 feet |
| Urban - more than 25 mph to 40 mph*** | 250 feet | 250 feet | 250 feet |
| Urban (high speed) - more than 40 mph*** | 350 feet | 350 feet | 350 feet |
| Rural | 500 feet | 500 feet | 500 feet |
| Expressway / Freeway | 1,000 feet | 1,500 feet | 2,640 feet |

* Speed category to be determined by the highway agency.

** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

*** Posted speed limit, off-peak 85th-percentile speed prior to work starting, or other anticipated operating speed in mph.

Table 6H-4. Formulas for Determining Taper Length

| Speed (S) | Taper Length (L) in feet |
|----------------|--------------------------|
| 40 mph or less | $L = \frac{WS^2}{60}$ |
| 45 mph or more | $L = WS$ |

Where: L = taper length in feet

W = width of offset in feet

S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

Table 6H-4(CA). Taper Length Criteria for Temporary Traffic Control Zones
(for 12 feet Offset Width)

| Speed* S (mph) | Minimum Taper Length** for Width of Offset 12 feet (W) | | | |
|----------------------|---|---------------------------|---------------------------|-----------------------------|
| | Merging L (feet) | Shifting L/2 (feet) | Shoulder L/3 (feet) | Down Stream (feet)*** |
| 20 | 80 | 40 | 27 | 50 |
| 25 | 125 | 63 | 42 | 50 |
| 30 | 180 | 90 | 60 | 50 |
| 35 | 245 | 123 | 82 | 50 |
| 40 | 320 | 160 | 107 | 50 |
| 45 | 540 | 270 | 180 | 50 |
| 50 | 600 | 300 | 200 | 50 |
| 55 | 660 | 330 | 220 | 50 |
| 60 | 720 | 360 | 240 | 50 |
| 65 | 780 | 390 | 260 | 50 |
| 70 | 840 | 420 | 280 | 50 |
| 75 | 900 | 450 | 300 | 50 |

* - Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph.

** - For other offsets use the following merging taper length formula for L:

For speeds of 40 mph or less, $L = WS^2/60$

For speeds of 45 mph or more, $L = WS$

Where:

L = taper length in feet

W = width of offset in feet

S = posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

*** - Maximum downstream taper length is 100 feet. See Section 6C.08.

Table 6F-101(CA). Maximum Spacing of Channelizing Devices

| Speed (mph) | Maximum Channelizing Devices Spacing | | |
|----------------|--------------------------------------|---------|------------|
| | Taper* | Tangent | Conflict** |
| | (feet) | (feet) | (feet) |
| 20 | 20 | 40 | 10 |
| 25 | 25 | 50 | 12 |
| 30 | 30 | 60 | 15 |
| 35 | 35 | 70 | 17 |
| 40 | 40 | 80 | 20 |
| 45 | 45 | 90 | 22 |
| 50 | 50 | 100 | 25 |
| 55 | 50 | 100 | 25 |
| 60 | 50 | 100 | 25 |
| 65 | 50 | 100 | 25 |
| 70 | 50 | 100 | 25 |
| 75 | 50 | 100 | 25 |

* Maximum channelizing device spacing for all speeds on one-lane/two-way tapers is 20 feet.

Maximum channelizing device spacing for all speeds on downstream tapers is 20 feet.

All other tapers are as shown.

** Use on intermediate and short-term projects for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizing devices.

✕ 2-5.0 TRENCH CUT POLICY

✕ 2-5.01 General Requirements

- A. Resurfacing requirements specified in this policy are in addition to the trench resurfacing requirements specified by County Standard Drawing No. R-29.
- B. For the purpose of this policy, "Surfacing Age" is defined as the age of the most recently completed roadway surfacing, including construction, reconstruction, or major overlay.
- C. Where the application of seal coats is required, a Type II Slurry Seal will be used in accordance with State Standard Specifications, Section 37-2.
- D. The permittee must post a one-year maintenance bond or cash deposit, in an amount specified by the Department.
- E. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but are not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers, and miscellaneous delineators.
- F. The permittee is responsible for Survey Monuments disturbed by trenching and is required to file a corner record and to reestablish them using a Licensed Land Surveyor after the trench restoration is completed.
- G. Functional classification maps and Public Works Project Advertising Schedules are references for this policy.
- H. To facilitate scheduling and planning, Public Works staff will make available the most current Project Advertising Schedule at the monthly Utility Coordination Meeting and make it available to the public, at the Permits Counter, in January each year.

2-5.02 Collectors, Arterials and Expressways

- A. Surfacing Age less than Three (3) Years: No pavement cuts. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.
- B. Surfacing Age Three (3) Years and Over:
 - 1. Longitudinal Trench Cutting in Paved Shoulder

Areas:

The entire shoulder of the road is to be resurfaced. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The nearest pavement cut shall be a minimum of three (3) feet from the edge of pavement, or the remaining pavement shall also be removed and replaced. (See County Standard Drawing No. R-37).

2. Longitudinal Trenches within Traveled Lanes:

The entire traveled lane where the trench is located is to be resurfaced with a one (1) inch asphalt concrete overlay. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The overlay shall be in accordance with State Standard Specifications, Section 39. Aggregate gradation shall be consistent with the existing surfacing material. (See County Standard Drawing No. R-37).

3. Cross-Cutting:

Cross-cutting is allowed at a minimum interval of 150 feet. At each cross-cut location a minimum of ten (10) feet on each side of trench shall be planed and resurfaced with one (1) inch asphalt concrete. If cross cuts are within the 150 feet minimum interval, the entire section between the first and last cross cut shall be planed and resurfaced with one (1) inch asphalt concrete. (See County Standard Drawing No. R-36).

4. The conditions described in paragraphs 1, 2 and 3 above will not apply if resurfacing is scheduled within two years.

X 2-5.03 Local Roads

A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

X B. Surfacing Age Three (3) to Five (5) Years:

1. Longitudinal cuts are permitted. A seal coat is required for that half of the roadway containing the trench. (See County Standard Drawing No. R-37).

2. Cross-cutting is allowed under the same conditions as Section 2-5.02(B)(3). If cross-cuts occur within the 150 feet minimum interval, resurfacing may be substituted with a slurry seal for that half of the roadway. (See County Standard Drawing No. R-36).

2-5.04 Exceptions

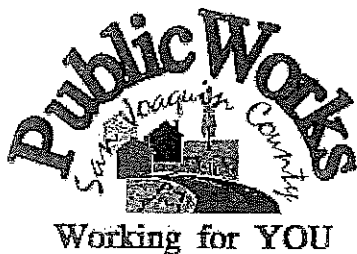
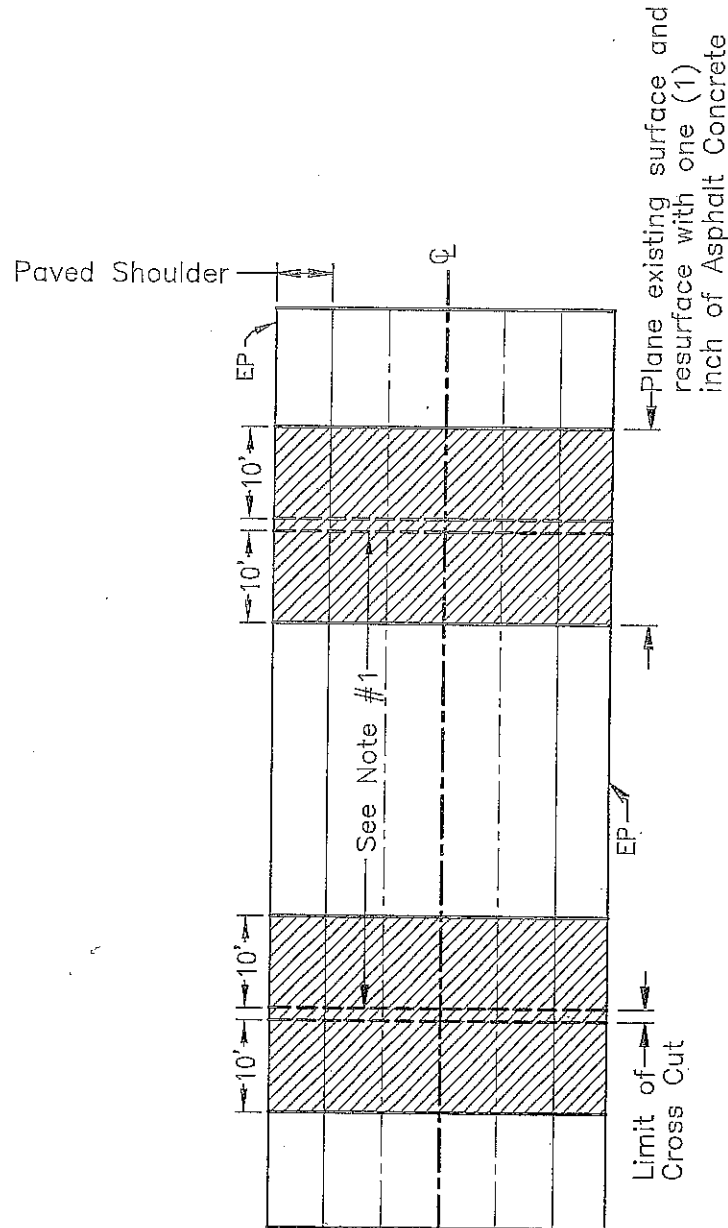
Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including but not limited to:

- A. An emergency that endangers life or property.
- B. For repair or modification to prevent interruption of essential utility service.
- C. For relocation work that is mandated by County, State or Federal law.
- D. For service for buildings where no other reasonable means of providing service exists.
- E. For potholing to verify utility depth or location.
- F. For trenchless excavations greater than three feet in depth of cover over the utility facility, and not requiring a significant surface incision greater than industry bore pit standards.

Exceptions must be requested and submitted in writing to the Department. Payment of a nonrefundable processing fee is also required. Exceptions will be reviewed using the Departments Action Approval process, which requires the recommendation of a Deputy Director.

NOTES:

1. If the distance between cross-cuts are less then 150' the entire area between corss-cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resurfaced as shown.
4. If cross-cutting is performed on Local Roads at intervals less then 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2-5.03 (B-2).



**TRENCH CUTTING POLICY
CROSS CUTTING OF
COUNTY ROADWAYS**

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Michael Kellogg

| No. | Revision | Description | Date |
|-----|----------|-------------|------|
| | | | |
| | | | |
| | | | |

Date: MAY 2015

Std. Dwg. No.

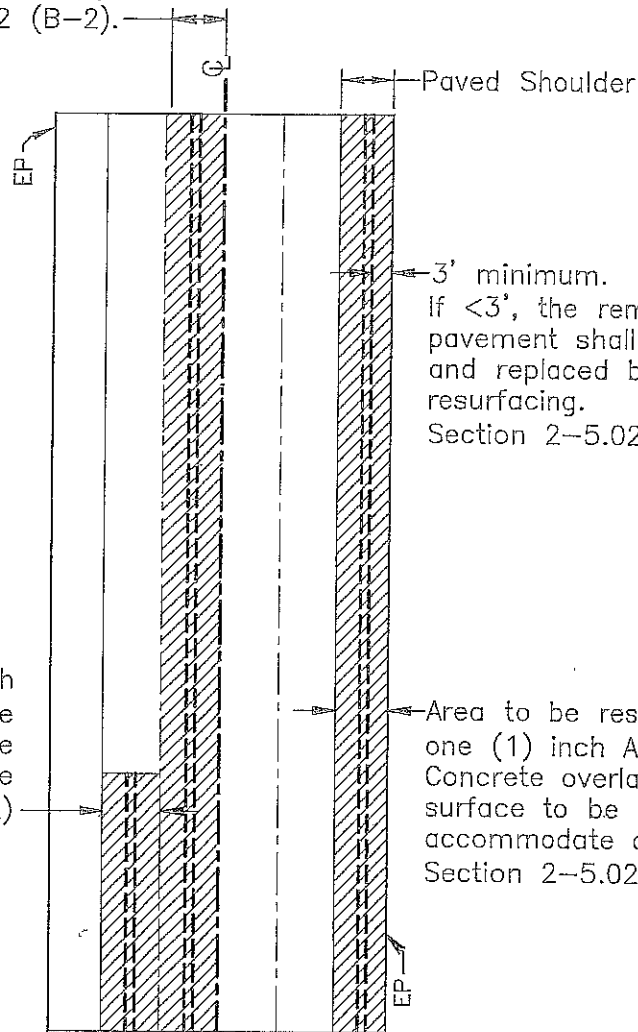
R-36

NOTES:

1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2-5.03 (B-1).

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay.

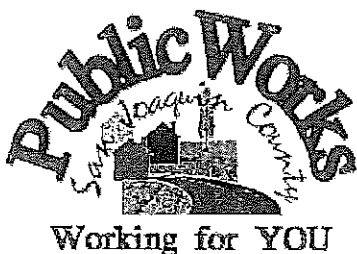
Section 2-5.02 (B-2).



Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed to accommodate overlay. Section 2-5.02 (B-2)

3' minimum.
If <3', the remaining pavement shall be removed and replaced before resurfacing.
Section 2-5.02 (B-1).

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed to accommodate overlay.
Section 2-5.02 (B-1).



**TRENCH CUTTING POLICY
LONGITUDINAL CUTTING
OF COUNTY ROADWAYS**

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Michael J. Kelly

| No. | Revision | Description | Date |
|-----|----------|-------------|------|
| | | | |
| | | | |
| | | | |

Date: MAY 2015

Std. Dwg. No.

R-37

